

PREVIEW QUESTION BANK

Module Name : Fish Processing Technology - 50-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7 207

4.0 1.00

Given below are two statements:

Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time,

Statement (II): Weather is a condition of atmosphere at a given place and at a given time

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are correct.
2. Both Statement (I) and Statement (II) are incorrect.
3. Statement (I) is correct but Statement (II) is incorrect.
4. Statement (I) is incorrect but Statement (II) is correct.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

8 208

4.0 1.00

The local name of cyclone in Phillippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

Choose the **correct** answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (B) and (C) only.
- 3. (B), (C) and (D).
- 4. (B) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alyosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	-----	---	-----	------

Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	-----	---	-----	------

Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
----	-----	---	-----	------

		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	-----	--	-----	------

Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	-----	--	-----	------

Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
----	-----	--	-----	------

A4 : 4

Objective Question

21	2201	Which among the following is an exotic carp farmed in India? 1. <i>Labeo calbasu</i> 2. <i>Cirrhinus mrigala</i> 3. <i>Amblypharyngodon mola</i> 4. <i>Ctenopharyngodon idella</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	------	--	-----	------

Objective Question

22

2202

4.0

1.00

Match **List-I** with **List-II**

List-I	List-II
(A). Mariculture	(I). <i>Labeo rohita</i>
(B). Marine fisheries	(II). <i>Tor putitora</i>
(C). Cold-water	(III). <i>Sardinella longiceps</i>
(D). Freshwater	(IV). <i>Trachinotus blochii</i>

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
2. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	2203		4.0	1.00
----	------	--	-----	------

Which among the following is correct about the marine fish stock status 2022 in India?

1. >90% healthy stocks
2. 70.1% healthy stocks
3. <50% healthy stocks
4. <25% healthy stocks

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

24 2204

Essential fish habitats such as coral reefs are challenged because of

1. Increasing sea water temperature in tropical region
2. Fishing
3. Over-exploitation
4. *Tsunami*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

25 2205

Multi-stage stratified random sampling method is used for estimating

1. Marine Fish Landing
2. Marine Fishing Effort
3. Marine Fish Landing and Effort
4. Marine Fisheries Census

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

26 2206

4.0 1.00

The Trophic Level of top level predatory fish will be between

1. 2.51-3.00
2. > 4.01
3. 2.00-2.50
4. 3.51-4.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 2207

The definitive indication of a "spawning" ovary in finfish histology is the presence of

1. Small, clear oocytes
2. Hydrated oocytes
3. Oocytes with vitellogenesis
4. Post-ovulatory follicles

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

28 2208

The von Bertalanffy equation deals with the following in fish

1. Mortality
2. Recruitment
3. Growth
4. Migration

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

29 2209

4.0

1.00

Fishes which spend most of their life in freshwater and migrate to sea to breed are called

1. Anadromous fish
2. Catadromous fish
3. Amphidromous fish
4. Potamodromous fish

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30 2210

The Merchant Shipping Act

1. 1958
2. 1956
3. 1968
4. 1966

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

31 2211

What is the full form of PMMSY

1. Pradhan Mantri Malsya Sustainable Yojana
2. Pradhan Mantri Marine Sampada Yojana
3. Pradhan Mantri Matsya Samskaran Yojana
4. Pradhan Mantri Matsya Sampada Yojana

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

32 2212

4.0

1.00

Among different components of a trawl gear, which of the following contributes maximum to the total drag?

1. Warp
2. Floats
3. Netting
4. Otterboards

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

33 2213

4.0 1.00

The Ministry of Cooperation under the Government of India was formed in

1. 2021
2. 2019
3. 2018
4. 2020

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34 2214

4.0 1.00

When women and men have differential access to and control over livelihood capitals in fisheries then

1. Men and women face different challenges in creating and maintaining sustainable livelihoods
2. Men and women face same challenges in creating and maintaining sustainable livelihoods
3. Men and women face no challenges in creating and maintaining sustainable livelihoods
4. There is positive development in society

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35 2215

4.0 1.00

----- is an important property of antifreeze proteins present in certain fish

1. Thermal hysteresis
2. Ice recrystallisation
3. Larger ice crystal formation
4. Facilitate blood coagulation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

36 2216

----- are the enzymes responsible for the conversion of PUFAs to prostaglandins.

1. Cyclooxygenases
2. Cytochromes
3. Fatty acid desaturases
4. Fatty acid reductases

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

37 2217

The bleeding of fish contributes to one of the following phenomena in fish.

1. Reduces oxidation due to the removal of hemeprotein
2. Facilitates oxidation due to oxygen uptake
3. No impact on tissue lipid oxidation
4. Loss of blood

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

38 2218

4.0 1.00

For small sized fish product individual quick freezing is best done by using

1. Fluidized bed freezer
2. Tunnel freezer
3. Contact plate
4. Air blast freezer

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

39 2219

The process of removing air from food cans is called

1. Exhausting
2. Venting
3. Flanging
4. Seaming

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

40 2220

The concentration of iodine solution required in smoked fish plant for hand and equipment sterilization respectively are

1. 15 and 10 ppm
2. 25 and 15 ppm
3. 15 and 25 ppm
4. 10 and 15 ppm

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

41 2221

4.0

1.00

Stretched shrimp is otherwise known as

1. Nobashi
2. Sushi
3. Barbeque
4. Trepang

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	2222		4.0	1.00
A Fried fish cake product is				
1. Chikuwa 2. Tempura 3. Hampen 4. Satsumaage				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

43	2223		4.0	1.00
Black discoloration of shrimps is prevented by dipping in a solution containing				
1. Sodium bicarbonate 2. Sodium metabisulphite 3. Sodium nitrite 4. Sodium tri polyphosphate				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

44	2224		4.0	1.00
----	------	--	-----	------

		Histamine intoxication results from the consumption of spoiled fish belonging to the group of 1. Scombroid 2. Elasmobranch 3. Cephalopods 4. Shrimps A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
45	2225	Squalene is obtained from 1. Liver of sharks 2. Airbladder of teleost fish 3. Shrimp shell waste 4. Scales of fish A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	2226	The major protein complex in the surimi production belongs to the group of 1. Sarcoplasmic proteins 2. Myofibrillar Proteins 3. Stroma Proteins 4. Connective tissues A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
47	2227		4.0	1.00

Name the BIS Standard for water used in food processing industries

1. IS-4251
2. IS-4250
3. IS-4231
4. IS-3451

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

48 2228

Which of the following antibiotic causes aplastic anaemia?

1. Nitrofurantoin
2. Chloramphenicol
3. Tetracycline
4. Quinolone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

49 2229

Which of the following factors determine the mesh size required to enmesh and hold a fish in a gillnet?

1. Body size and shape of target fish
2. Length and height of the net
3. Cruising speed and burst speed of target fish
4. Visibility and depth of water column

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

50 2230

4.0 1.00

		<i>Lampara</i> is a 1. Surrounding net with a purse line 2. Surrounding net without a purse line 3. Surrounding net with a bunt 4. Surrounding net without a bunt A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
51	2231	The bilge keel fitted just below the water level in the mid-ship area of the boat 1. reduces pitching of the boat 2. increases rolling of the boat 3. reduces rolling of the boat 4. increases pitching of the boat A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	2232	SART or Search and Rescue Transponder, a vital machine on a vessel during distress, operates on a frequency band of 1. 15 GHz frequency band (15.2 to 15.5 GHz) 2. 6GHz frequency band (6.2 to 6.5 GHz) 3. 9GHz frequency band (9.2 to 9.5 GHz) 4. 12GHz frequency band (12.2 to 12.5 GHz) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	2233		4.0	1.00

		Which fuel is used for the propulsion of deep sea fishing vessels 1. Petrol 2. Diesel 3. Kerosene 4. Petrol + Kerosene A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
54	2234	What is the purpose of gear box in the engine room of fishing vessels 1. Turning in the sea 2. Increasing and decreasing the speed 3. Keeping the forward, reverse and neutral positions 4. Only for emergency situations A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
55	2235	The area of an irregular polygon is calculated by using ----- 1. Sine rule 2. Trapezoidal rule 3. Triangulation method 4. Pythagoras theorem A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	2236		4.0	1.00

In what type of brackishwater fish farm, a feeder-cum-drainage channel is the most important and essential component ?

1. Tide-fed
2. Pump-fed
3. Tide-cum-pump fed
4. Any type

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57 2237

Which type of refrigerant is commonly used in seafood processing plants?

1. R-134a
2. Ammonia
3. Freon-22
4. Carbon dioxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

58 2238

Which factor affects the drying time in dehydrating equipment for fish?

- (A) Ambient temperature
- (B) Fish size & species
- (C) Humidity level

1. (A) and (B) only.
2. (A), (B) and (C)
3. (B) and (C) only.
4. (A) and (C) only.

A1 : 1

A2 : 2

A3 : 3

4.0

1.00

		A4 : 4		
Objective Question				
59	2239	Boundry between stratosphere and troposphere is called 1. stratopause 2. Mesopause 3. tropopause 4. nacreous A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	2240	Which of the following is an example of biotic relationship ? 1. Bacteria and Ammonia production 2. Photosynthesis 3. Symbiosis 4. Respiration by zooplankton A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
61	2241	The largest man made lake of India is- 1. Dal lake 2. Heerakud 3. Indirasagar 4. Husainsagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
62	2242	BOD is a measure of- 1. Organic pollution 2. Biological pollution 3. Inorganic pollution 4. Physical pollution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	2243	On the basis of their origin, majority of natural freshwater lakes in the world are- 1. Tectonic 2. Volcanic 3. Glacial 4. Dissolution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	2244	Non biodegradable wastes which can be used again are known as- 1. Non recyclable wastes 2. Recyclable wastes 3. Resynthesized wastes 4. Decomposable waste A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

65

2245

4.0

1.00

Match **List-I** with **List-II**

List-I	List-II
(A). Cumulose material	(I). Lower to higher trophic level
(B). Clay	(II). Peat
(C). Biomagnification	(III). Cation exchanger
(D). Slightly acidic/ alkaline soils	(IV). Colloidal state

Choose the **correct** answer from the options given below:

1. (A) - (II), (B) - (I), (C) - (III), (D) - (IV)

2. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)

3. (A) - (II), (B) - (IV), (C) - (I), (D) - (III)

4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66	2246	What distinguishes Euryhaline organisms from stenohaline organisms? - Euryhaline organisms can only exist in freshwater ecosystems. - Stenohaline organisms are salt-tolerant and can survive in marine ecosystems - Euryhaline organisms can adapt to a wide range of salinities, while stenohaline organisms can only tolerate narrow ranges. - Stenohaline organisms are freshwater organisms. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	------	---	-----	------

Objective Question

67	2247		4.0	1.00
----	------	--	-----	------

What is the primary function of aerenchyma in aquatic plants?

1. To transport oxygen to roots
2. To store excess nutrients
3. To provide structural support
4. To absorb carbon dioxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68 2248

What is the main role of macroinvertebrates in assessing water quality in streams and rivers?

1. Nutrient cycling
2. Oxygen production
3. Pollination
4. Bioindication

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

69 2249

4.0

1.00

Match the following oceanographic analysis techniques with their descriptions:

List I	List II
A. GIS	I) Examination of large-scale ocean features and phenomena.
B. Remote sensing	II) Study of rapid fluctuations in ocean productivity.
C. Synoptic analysis	III) Mapping and monitoring fisheries habitats and resources.
D. Short-term productivity changes	IV) Utilizing satellite imagery for oceanographic research.

1. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
2. (A) - (II), (B) - (III), (C) - (I), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question			
70	2250	4.0	1.00

Match the following fisheries enhancement strategies with their descriptions:

List I	List II
(A) Artificial upwelling	(I). Creating conditions for vertical layering of water masses.
(B) Ranching	(II). Introducing nutrients to stimulate phytoplankton growth.
(C). Ocean fertilization	(III). Capturing juvenile fish for rearing and release into the wild.
(D). Stratification	(IV). Manipulating ocean currents to bring nutrient-rich water to the surface.

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (III), (C) - (II), (D) - (IV)
2. (A) - (IV), (B) - (III), (C) - (II), (D) - (I)
3. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

71	1002551	One of the following mucopolysaccharides is present in the connective tissues of certain fishes.	4.0	1.00
		1. Glycophorin 2. Chondroitin sulphate 3. N-acetylglucosamine 4. Alginic acid		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

72	1002552	Octopine, an amino acids derivative, is specific to ----- 1. Cephalopods 2. Cusaceans 3. Elasmobranchs 4. Teleosts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

73	1002553	The increase in concentration of a contaminant in the tissues of organisms at successively higher levels in a food chain is called 1. Bioaccumulation 2. Biomagnification 3. Biofiltration 4. Concentration A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

74	1002554	One of the following is not an aliphatic biogenic amines 1. Putrescine 2. Cadaverine 3. Spermine 4. Tyramine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question				
75	1002555	The increased performance of HPLC is related to one of the following 1. Decreased particle size of the stationary phase 2. Increased pressure applied 3. Sophisticated instrumentation 4. Nature of the stationary phase A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
76	1002556	In GCMS, the individual components are separated based on their 1. The choice of the mobile gas 2. The mass of the component 3. Mass to charge ratio of the component 4. The charge on the component A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
77	1002557	The sets of amino acids which facilitate chemical modification leading to improved protein functionalities 1. Arg, His, Pro 2. Asp, Glu, Val 3. Lys, Cys, Trp 4. Met, Phe, Ser A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
78	1002558		4.0	1.00

----- is one of the important mesopelagic fish species that have been tried for value addition but have failed due to their unique lipid composition

1. Myctophidae sp.,
2. Diaphinae sp.,
3. Gymnoscopelinae sp.,
4. Diogenichthys sp.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

79	1002559	The antioxidants a-tocopherol and astaxanthin act by one of the following mechanisms 1. Preventing oxygen inclusion 2. Scavenging reactive ROS and ROM species 3. Suppressing ROS and ROM species 4. Preventing oxygen uptake A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

80	1002560	The form of vitamin D present in fish is ----- 1. Ergocalciferol 2. Cholecalciferol 3. Lumisterol 4. 22-dihydroergocalciferol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

81	1002561		4.0	1.00
----	---------	--	-----	------

Processing of heating in hermetically sealed container are referred as

1. Isomerisation
2. Radurisation
3. Appertisation
4. Pasteurisation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

82	1002562	To prevent the ice melting in a Fish box the insulation material 1. Shall be having high thermal conductivity 2. Shall be having medium thermal conductivity 3. Shall be having low thermal conductivity 4. Shall be having no thermal conductivity A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

83	1002563	Partial Freezing or Superchilling involves lowering the temperature of fish to about 1. -2° C to -3°C 2. -5°C to -8°C 3. -1°C to -1.5°C 4. -9°C to -10°C A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

84	1002564		4.0	1.00
----	---------	--	-----	------

The minimum overlap between cover hook and body hook in double-seamed cans is

1. less than 30%
2. 60%
3. 10%
4. 40%

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

85	1002565	The Z value of Clostridium botulinum is 1. 10 °C 2. 22°C 3. 30°C 4. 18°C A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

86	1002566	After freezing, the frozen blocks of fish/shrimp are again dipped in ice cold water to 1. Enhance dehydration of the product 2. Prevent hydrolytic rancidity 3. Prevent dehydration and help in preventing oxidative rancidity 4. Prevent non-uniform coating of ice around the Block A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

87	1002567		4.0	1.00
----	---------	--	-----	------

		Sulphur resistant lacqued cans contains 1. Aluminium Sulphate 2. Zinc Oxide 3. Tin 4. Zinc Sulphate A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
88	1002568	The latent heat of fusion of ice under normal atmospheric pressure is 1. 336 KJ/kg 2. 300 KJ/kg 3. 320 KJ/kg 4. 358 KJ/kg A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
89	1002569	Refrigeration of foods reduces microbial spoilage because it 1. Kills all microorganisms 2. Reduces water activity 3. Reduces metabolic activity of the organisms 4. Alters the pH of the product A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
90	1002570		4.0	1.00

		Retort pouch contains 3 layers viz		
		1. Polyester /PVC/LDPE film 2. PP/PVC/HDPE film 3. Polyester/Aluminium foil/ Cast PP 4. Paper/Aluminium foil/LDPE film		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
91	1002571	Which fish is mostly used for production of pearl essence	4.0	1.00
		1. Sardine 2. Ribbon fish 3. Bombay duck 4. Anchovies		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
92	1002572	Identifying the plant, whose dried fruit rind, is combined with salt and other organic acids to lower pH and to provide bacteriostatic effect in Colombo curing of fish	4.0	1.00
		1. <i>Petroselinum crispum</i> 2. <i>Ocimum basilicum</i> 3. <i>Garcinia combogia</i> 4. Coconut leaves		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
93	1002573		4.0	1.00

		Smoke is known to have carcinogenic effect due to presence of a compound called as		
		1. 3,4 benzopyrene 2. 1,3 di-methyl pyrogallol 3. 4 methyl catechol 4. Ethylene		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
94	1002574	Fermented fish product with low salt concentration of less than 6%, from North East sector of India is known as 1. Ngari 2. Nampla 3. Shidal 4. Buro	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
95	1002575	Organic acids are preferred to produce fish silage as they 1. Breakdown protein to peptide 2. Reduce pH to 3.5 to get stable product 3. Reduse cost of production 4. Increase taste and odour	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
96	1002576		4.0	1.00

During processing of chitin, calcium and phosphorus is removed from washed prawn shell by treatment with

1. 1.25 N Hydrochloric acid
2. 1.25 N Sulphuric acid
3. 1.25 N Sodium Chloride
4. 1.25 N Sodium Hydroxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

97	1002577	Trepang is boiled, dried and smoked product of 1. <i>Rhincodon typus</i> 2. <i>Sardinella longiceps</i> 3. <i>Penaeus monodon</i> 4. <i>Holothuria scabra</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

98	1002578	The water boils at 0°C, if the pressure is reduced to 1. 0.006 bar 2. 0.06 bar 3. 0.6 bar 4. 6.0 bar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

99	1002579		4.0	1.00
----	---------	--	-----	------

During the initial storage period, the decrease in the pH of the MAP is observed which is due to

1. Production of alkaline substances
2. Spoilage
3. Dissolution of CO₂
4. Glycolysis

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

100 1002580

Pla-ra is a

1. Acetic acid fermented product
2. Latic acid fermented product
3. Dried product
4. Pasteurized product

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

101 1002581

The process of refining the fish body oil to remove the phospholipids is

1. Degumming
2. Neutralization
3. Winterization
4. Bleaching

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

102 1002582

4.0 1.00

Which technology is commonly used in intelligent packaging to monitor product freshness?

1. RFID (Radio Frequency Identification)
2. NFC (Near Field Communication)
3. QR codes
4. Biosensors

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103	1002583	Identify one of the drawbacks in the pulsed electric field for food processing.... 1. Presence of bubbles 2. Perform the pasteurization 3. Environmental abuse 4. Relatively long treatment time A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	--	-----	------

Objective Question

104	1002584	Which equation represents the relationship between equilibrium relative humidity (ERH) and water activity (a_w) in a food system? 1. $ERH = 100 \times (a_w / 0.75)$ 2. $ERH (\%) = a_w \times 100$ 3. $ERH = 100 \times (a_w)^2$ 4. $ERH = \ln(a_w)$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	--	-----	------

Objective Question

105	1002585		4.0	1.00
-----	---------	--	-----	------

		Fish scales are rich in 1. Hydroxyapatite 2. Sodium phosphate 3. Glucosamine 4. Omega 3 fatty acids A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
106	1002586	Ambergris is formed because of the consumpyion ofby sperm whale 1. Crabs 2. Oysters 3. Squid & Cuttlefishes 4. Seacucumbers A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	1002587	The chemical additive, most effective in controlling yeast and molds in food, is 1. Sulphides 2. Benzoic acid 3. Sodium chloride 4. Hypochlorites A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
108	1002588		4.0	1.00

		Stockfish (dried without the addition of salt) is produced from _____ fish 1. Cod 2. Catla 3. Mullet 4. Tuna A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
109	1002589	'Irish moss' is 1. Gelatin 2. Pectin 3. Carrageenan 4. Chitin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
110	1002590	The squalene was first discovered in liver oil of sea sharks by 1. A. Von Brandt 2. Saengwong 3. Englund 4. Mitsumaru Tsujimoto A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
111	1002591		4.0	1.00

The occurrence of the following bacteria in seafood is considered as the biological hazard

1. *Achromobacter*
2. *Listeria monocytogenes*
3. *Pseudomonas aeruginosa*
4. *Lactobacillus*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112	1002592	Which is the authority publishing international codes of practices on fish and fishery products?	4.0	1.00
		1. USFDA 2. FSSAI 3. EU 4. Codex Alimentarius Commission		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

113	1002593	The FDA Food Code (2009) recommended the following cooking process for comminuted fish products for assuring public health	4.0	1.00
		1. 15 sec. at 155°F 2. 15 sec. at 145°F 3. 30 sec. at 155°F 4. 30 sec. at 145°F		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

114	1002594		4.0	1.00
-----	---------	--	-----	------

The Quality Index Method (QIM) used for testing the sensory quality of fish was developed by the scientists belonging to

1. Iceland
2. UK
3. Germany
4. Australia

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

115 1002595

Which of the following pathogenic *E. coli* formerly known as verotoxigenic *E. coli* (O157:H7)?

1. ETEC
2. EIEC
3. EAEC
4. STEC

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

116 1002596

The process that can be used to identify and manage the risk is called as

1. Risk analysis
2. Risk characterization
3. Risk assessment
4. Exposure assessment

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

117 1002597

4.0 1.00

What does the ISO 22000 standard in food industry, primarily focus on?

1. Environmental management
2. Quality management
3. Food safety management
4. Occupational health & safety

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

118	1002598	Which of the following bacteria is the specific spoilage organism (SSO) in iced tropical fish? 1. <i>Bacillus cereus</i> 2. <i>Aeromonas hydrophila</i> 3. <i>Staphylococcus aureus</i> 4. <i>Shewanella putrefaciens</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	---	-----	------

Objective Question

119	1002599	Which certificate issued by the MPEDA ELISA Screening Laboratories in India is mandatory for the export of farm produced shrimps to European Union? 1. PHT 2. FISHSafe 3. EU-TRACE 4. FARMGUARD A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	---	-----	------

Objective Question

120	1002600	Which of the following nematodes most frequently raise safety concern in seafood consumers? 1. <i>Anisakis</i> & <i>Diphyllobothrium</i> 2. <i>P. decipiens</i> & <i>N. salmincola</i> 3. <i>Anisakis</i> & <i>N. salmincola</i> 4. <i>P. decipiens</i> & <i>Anisakis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	--	-----	------